

SAFETY DATA SHEET

delta UNDECALACTONE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: delta UNDECALACTONE
Product Number: 20047
CAS # 710-04-3
Chemical name: 2H-Pyran-2-one, 6-hexyltetrahydro-
Chemical Family: Cyclic lactone
Product Use: Flavor or Fragrance Ingredient

Distributor:

Aroma Chemical Services International, Inc.
200 Broad Street
Red Bank, NJ 07701

GENERAL INFORMATION TELEPHONE NUMBER: 1 732 383 7205

EMERGENCY TELEPHONE NUMBER: 1 800 535 5053, INFOTRAC

2. HAZARDS IDENTIFICATION

WARNING

H315 CAUSES SKIN IRRITATION

H319 CAUSES SERIOUS EYE IRRITATION



GHS CLASSIFICATION;

Skin irritant (Category 2A)

Eye irritant (Category 2A)

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PRECAUTIONARY STATEMENTS

PREVENTION

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection

RESPONSE

P302 + P352 IF ON SKIN: Wash with plenty of water

P305 + P351 + P338 IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>% By Wt</u>
2H-Pyran-2-one, 6-hexyltetrahydro	710-04-3	>98

4. FIRST AID MEASURES

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation occurs.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get medical attention if irritation occurs.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Get medical attention.

INHALATION: Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult administer oxygen. Get medical attention if irritation of respiratory passages occurs.

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5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry powder

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and full protective clothing. Do not use full water jet on fire. Use water spray only to cool drums or packages in fire area.

Carbon monoxide and carbon dioxide will be released from fire

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Remove unauthorized personnel from area. Wear appropriate personal protective equipment. Remove sources of ignition. Contain spills onto inert absorbent and place in suitable containers. Take precautions to prevent discharge to drains, surface or ground water and soil.

7. HANDLING AND STORAGE

HANDLING: Use only in well ventilated areas.
Use local exhaust ventilation at work stations.
Avoid contact with skin and eyes. Avoid breathing vapor.
Wash hands and other exposed body areas before eating.
Keep away from sources of ignition. Do not smoke, eat or drink in the area.

STORAGE: Store closed containers in cool area away from heat and oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in a well ventilated area.

RESPIRATORY PROTECTION: Not required under normal conditions of use.
If vapor concentrations cause discomfort, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134.

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SKIN PROTECTION: Wear clothing suitable to prevent skin contact. Use rubber gloves. Check suitability recommendations by protective equipment manufacturers.

EYE PROTECTION: Safety goggles with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid
COLOR:	Colorless to pale yellow
ODOR:	Coconut
ODOR THRESHOLD:	Not available
pH:	Not available
MELTING POINT/FREEZING POINT: ...	Not available
FLASH POINT:	>212°F (>100°C)
EVAPORATION RATE:	Not available
FLAMMABILITY LIMITS:	Not available
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available
LOWER EXPLOSION LIMIT:	Not available
UPPER EXPLOSION LIMIT:	Not available
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Not available
BOILING POINT:	266-275°F (130-135°C) @ 5 mbar
ACID VALUE:	<5mgKOH/g
RELATIVE DENSITY:	0.956-0.962 g/ml (20°C)
SOLUBILITY IN WATER:	Insoluble
VISCOSITY:	Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and hydrocarbon byproducts.

POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Avoid oxidizing agents and strong acids, bases and direct sunlight.

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11. TOXICOLOGICAL INFORMATION

LD₅₀ oral rat: >5000 mg/kg

LD₅₀ dermal rabbit: >5000 mg/kg

Skin irritation rabbit: irritant

Eye irritation: not available

Skin sensitization human: non sensitizing.

Product is not listed in the National Toxicology Program (NTP), Report on Carcinogens, or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs or found to be a potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Avoid contamination of ground water or waterways.

Ecological test data is not available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.

14. TRANSPORT INFORMATION

Land and inland navigation

Marine transport IMDG

Air transport ICAO/IATA

Not Classified as a Hazardous Material

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15. REGULATORY INFORMATION

Note: Entries under Section 15 cover only those regulations typically addressed in the MSDS generating process, such as TSCA and EPCRA/SARA Title III.

This product is on the TSCA, EINECS/ELINCS and the Canadian DSL inventories. To the best of our knowledge this product contains no reportable toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

HMIS LABEL

HAZARD CODES

RATING

4 = EXTREME

3 = HIGH

2 = MODERATE

1 = SLIGHT

0 = INSIGNIFICANT

S = Safety glasses and protective gloves

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PERSONAL PROTECTION: B

16. OTHER INFORMATION

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.